

SMART-i *Drive*

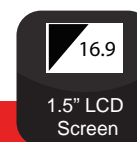
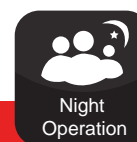


HD

HD Vehicle Accident Camera

User Manual

Version 1



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1. Product Overview

Thank you for purchasing the Smart-i *Drive* Accident Camera from Smart-i.

The Smart-i *Drive* records road events in HD (720P) to help drivers provide clear evidence of what really happened and help protect against false claims.

The recorder is equipped with motion detection recording as well as snapshot recording.

The Smart-i range of Vehicle Accident Cameras are designed to offer crystal clear images and represent amazing value for money.

1.1 Product Features

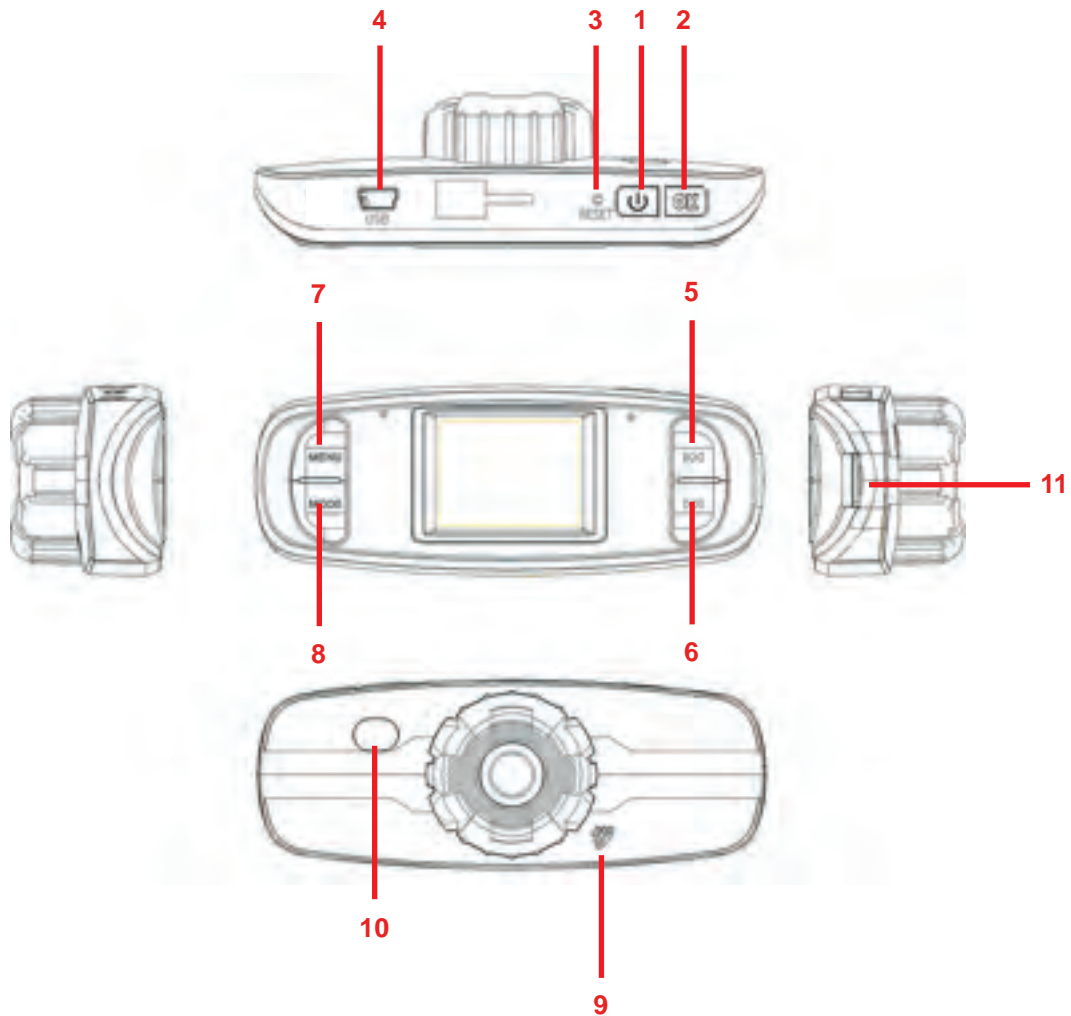


- Supports 720P recording
- Built-in Microphone / Speaker
- Quick Recording Open / Close Choice
- Supports up to 32GB Micro SD Card
- Recorder charges while in recording function and the video loop offers seamless video coverage

1.2 What's in the Box

- Smart-i *Drive* Vehicle Accident Camera
- 1x Suction Windscreen Mount
- 1x Car Charger
- 1x User Manual
- 1x USB Cable

1.3 Button Functions



1. Power Off / On Button
2. OK: Confirm key. Execution key for photograph / video recording / audio recording.
3. Reset Button
4. USB Port
5. Right Direction Key
6. Left Direction Key
7. Menu: Open Up Sub-Menu
8. Mode: Mode switch, toggle between photo, video and audio recording. Also press for file playback mode.
9. Speaker / Microphone
10. LED
11. Micro SD Card Slot

1.4 Installation

To Install the Smart-i *Drive* in your car, please follow the steps below:

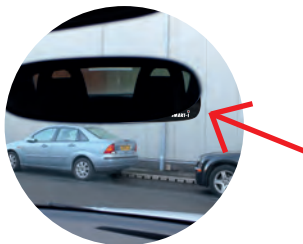
1. Firstly, take out the Smart-i *Drive* and the Windscreen Mount.
2. Attach the Windscreen Mount to the unit.



3. Insert the Micro SD Card (if purchased) into the unit. To insert, place the card in the slot (shown below) until you hear a slight click sound confirming the card has been placed successfully.



4. Position the Smart-i *Drive* at the front of the car. Please note that the recorder should be placed in behind the rear view mirror to comply with regulations.



5. Take the 'Car Charger' out of the box.
6. Connect the USB end of the car charger to the Smart-i *Drive* and the other end to the Cigarette Lighter Power Socket in your vehicle.



7. Turn on the ignition to power the unit.
8. Finally, press the 'Power On' to turn the unit on.

1.5 Basic Operation

Power On / Off

Before powering on the recorder, please insert the Micro SD Card. Insert the Micro SD Card into the slot until there is a slight 'click' sound, which means the card has been successfully installed.

Power On

Manual - Press the power on / off button, to turn the recorder on.

Auto - When connected to a working power adaptor, the recorder will automatically turn on. If a Micro SD Card has already been installed, the recorder will automatically begin recording.

Power Off

Manual - Press and hold the power On / Off button.

Battery

Please note the Smart-I Drive requires power all the time to be able to function.
When not powered the unit's built in battery will last enough time to close the last recording safely.

2 OSD Menu

System
Settings

Video	Video Resolution	HD (1280x720) D1 (848x480) 640 (640x480)
	Date Stamp	Off / On
Motion Detection	Motion Detection	Off / On
	Loop Record	Off / On
Loop Time	Loop Time	2 / 5 / 10 Minutes
	Continue	Off / 5 / 10 Minutes
Video Sound	Video Sound	On / Off
	Resolution	5 Megapixel, 3 M, 2 M, 1 M
Quality	Quality	Super Fine, Fine, Normal
	Exposure	-2.0 ~ +2.0
Driver Mode	Driver Mode	Off / Self Timer 2 Sec, Self Timer 10 Sec, Burst
	Date Stamp	On / Off
Shutter	Shutter	On / Off
	Start Up	Off / (Choose from 3 Sounds)
Beep	Beep	On / Off
	Volume	0 -3
Power Frequency	Power Frequency	50 Hz / 60 Hz
	Power Save	Off / 1 Min / 3 Min / 5 Min
Panel Protect	Panel Protect	Off / 30 Sec / 1 Min / 2 Min
	Date & Time	Set Date & Time
Language	Language	12 Languages
	Start-up Image	Off / System / My Image
Format	Format	Yes / No
	LED Light	On / Off
Reset All	Reset All	On / Off
	Version	View Version Information

2.1 Menu

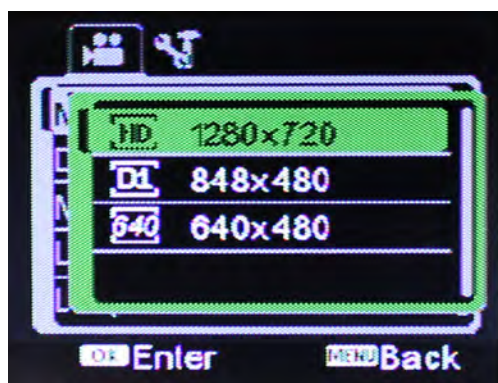
To enter into the system settings, press the 'Menu' button when in video mode. There are 2 menu options that you can choose to adjust, video and general settings. To switch between the 2 menus, press the 'Mode' button and then use the arrow buttons to choose between the menu options.

Alternatively, to enter into the picture mode menu, press the 'Mode' key when the unit is on. This will enter into the 'Picture' mode, then press the 'Menu' key.

2.2 Video Settings

To enter into the video settings, press the 'Menu' button when the unit is in video mode. To navigate between menu options, use the arrow key then press 'OK' to enter into that option. Once you have adjusted the settings, press the 'OK' button to confirm.

2.2.1 Movie Size



This option allows you to choose the video resolution. You can choose between:

HD (1280x720)
D1 (848x480)
640 (640x480)

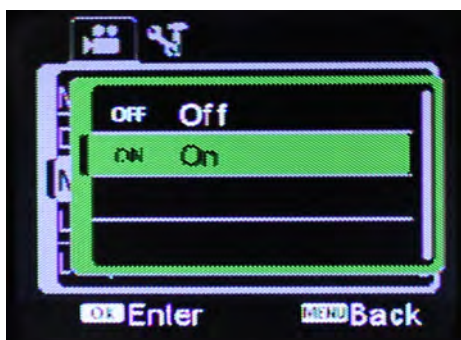
Please Note: The higher the definition of the video, the larger the video file size will be.

2.2.2 Date Stamp



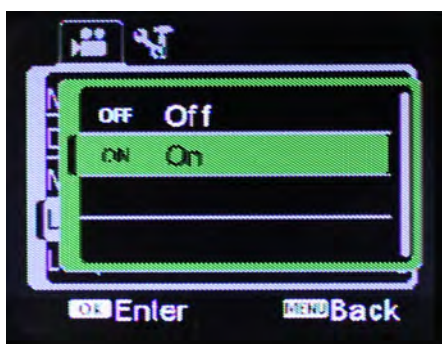
The date stamp option allows you to add the time and date on the screen of the recorded videos. To adjust the time and date, go to section 2.4.5 on page 15.

2.2.3 Motion Detection



By turning this function on, when a moving object is detected and the recorder will begin to record. If the object stops moving the recorder will stop, and begin again once the same object moves again.

2.2.4 Loop Recording



This option allows the user to turn on the loop recording function. To adjust the loop recording times, go to the 'Loop Time' section (2.2.5) on page 10.

2.2.5 Loop Time



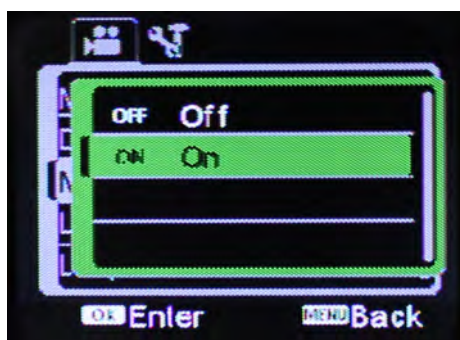
This option allows you to change the video sizes when in loop record. By turning on this function, the unit will record for either 2, 5 or 10 minutes and then start a new video recording file.

2.2.6 Continue



Turn on the continue function to enable the recorder to continue to record after the ignition has been switched off. This can be set to record 5 minutes or 10 minutes after the engine turns off.

2.2.7 Video Sound



This option allows you to record sound as well as video via the microphone on the front of the recorder.

2.3 Picture Settings

To enter into the picture settings, press the 'Menu' button when the unit is in picture mode. The picture settings allow you to adjust the following; Resolution, Quality, Exposure, Driver Mode and Date Stamp.

Once you have adjusted the settings, press the 'OK' button to confirm.

2.3.1 Resolution



Set the resolution of the image taken. The Smart-i Drive can take images up to 5 Megapixels. The resolution can be set to:

- 5 Megapixel (2592x1944)
- 3 Megapixel (2048x1536)
- 2 Megapixel (1600x1200)
- 1 Megapixel (1280x1024)

2.3.2 Quality



Adjust the quality of the image from Super Fine, Fine and Normal. Please note that the higher the quality of image, the larger the file size.

2.3.3 Exposure



The exposure levels of the camera will determine how much light will reach the camera. The higher the levels, the more light will enter the camera and the picture will be brighter, lighter and whiter. The exposure level can be adjusted from -2.0 to +2.0 (-2 being less light).

2.3.4 Driver Mode



The Driver Mode option allows you to set the Smart-i *Drive* to take images using a timer or take several pictures at once in 'burst' mode.

This mode can be set to: Off, 2 second self-timer, 10 second self timer and burst.

2.3.5 Date Stamp



The date stamp option allows you to add the time and date on the screen of the recorded videos. To adjust the time and date, go to section 2.4.5 on page 15.

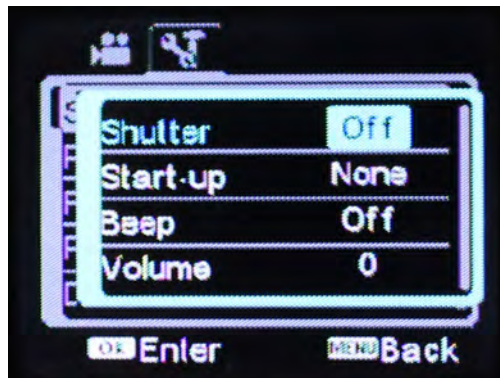
2.4 General Settings

The general settings allow you to alter the following on the recorder:

- Sounds
- Power Frequency
- Power Save Options
- Date, Time and Language
- Formatting the SD Card
- LED Light
- Factory reset on the unit

To enter into this menu, press the 'Mode' key when in the video or picture menu. To navigate between the options use the arrow keys.

2.4.1 Sounds



The sound menu opens up a sub-menu which allows you to adjust the following volumes:

Shutter - Turn the shutter volume on or off

Start-up - Turn the start up sound off or choose between 3 sounds

Beep - Turn on the beep sound when buttons are pressed on the recorder.

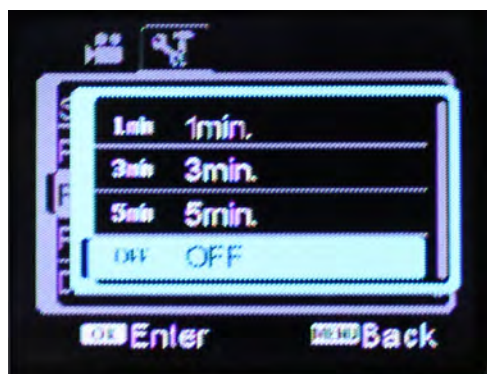
Volume - Adjust volume level from 0-3

2.4.2 Power Frequency



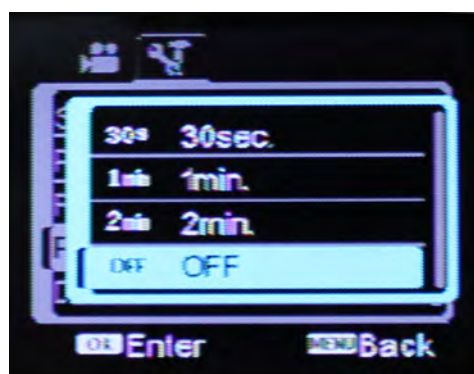
Set the power frequency on the recorder, this can be either 50Hz or 60Hz.

2.4.3 Power Save



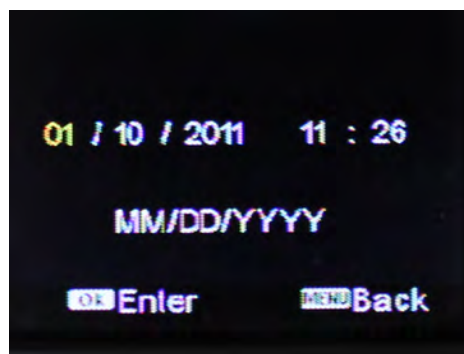
The power save option will allow the unit to record for longer. If the power save setting is turned on, the unit will be powered for longer without the need to re-charge as the screen will be turned off but the unit will still record. You can set the screen to turn off after 1, 3 or 5 minutes of inactivity.

2.4.4 Panel Protect



The panel protect function will save power on the recorder by turning off the screen after 30 seconds, 1 minute or 2 minutes.

2.4.5 Date / Time



Change the Date and Time using the format shown above. This will be shown on the Date Stamp if you have turned that feature on. To adjust the date and time, use the arrow keys and press the 'Mode' key to switch between digits.

You can adjust the Date format by pressing the 'Mode' key to navigate the format and using the arrow keys to toggle between the different date formats. When finished, press the 'OK' button.

2.4.6 Language



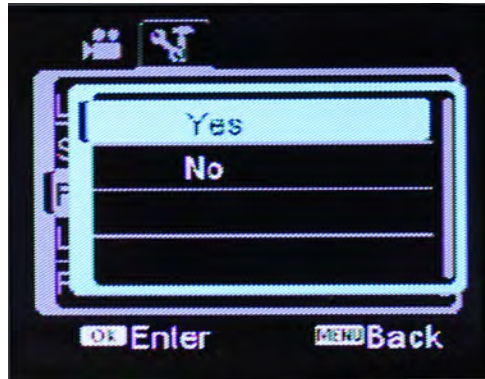
Change the language displayed on the recorder, there are 12 languages available.

2.4.7 Start-up Image



This option allows you to change the image that displays when the unit is turned on or off. This can be set to off or use the default image that comes with the unit, or choose your own image.

2.4.8 Format



Format the SD Card on the unit.

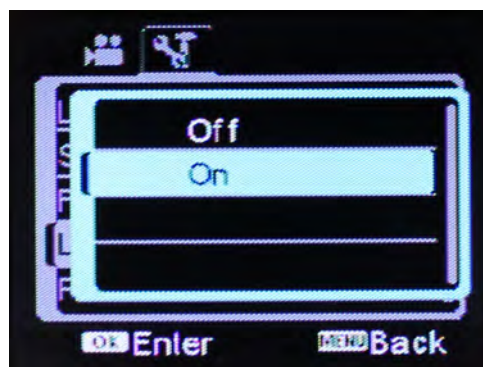
Please Note: Formatting the card will erase all of the current recorded files, so please back these up before formatting.

2.4.9 LED Light



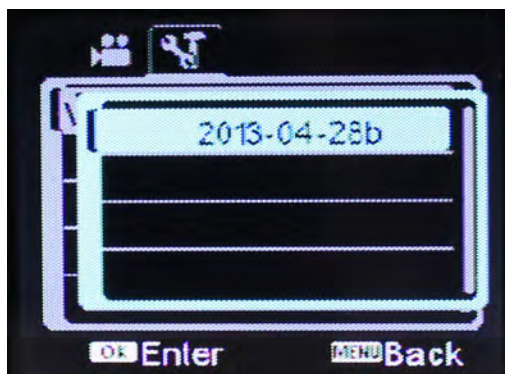
The LED Light option allows you to switch the LED's on or off.

2.4.10 Reset All



Reset all the the settings to the factory default settings.

2.4.11 Version



View the version number and recorder details.

3 Recording & Playback

3.1 Video Recording

To enter into video recording mode, turn on the recorder and press mode button until you see the icon on top of the screen.



3.1.1 Manual Recording

1. Turn on the recorder and press the 'mode' button until in the video record mode preview. The screen will display some general information, including current capture mode, preset size, remaining recording time.
2. Press the OK key to start recording.

Please Note: If loop recording is enabled, the recorder will keep recording accordingly. If there is not enough memory space, it will automatically delete the oldest recorded files. Please backup important records to avoid them being over-written automatically.


3.1.2 LED Recording

When the recorder is off, connect to a working power adapter. When, the recorder is turned on automatically, the device will enter video recording state automatically and the LED will light up.


3.1.3 Auto Recording

When the recorder is turned off, connect a working power adapter. After the device is turned on automatically, the device will enter video recording mode. Disconnect the adaptor to stop automatic recording.

3.2 Snapshot Mode

1. To enter into snapshot recording mode, turn on the recorder and press the mode button until you see the  icon on top of the screen.
2. Press the 'OK' key to take photo directly.
3. To set the picture parameters, press MENU key to pop-up menu. The user can set resolution, quality, white balance, etc.

3.3 Audio Recording

1. After the recorder has been turned on, in standby status, press MODE key to switch until you see the  icon.
2. Press the 'OK' key to start recording.
3. Press the 'OK' key again to stop recording.


3.4 Playback

To enter into playback mode, press the 'Mode' key until you see the recorded files. Then, press the left of right key to select the file you wish to play back or view.

The playback mode will contain all recorded files, including pictures, videos and audio recordings.

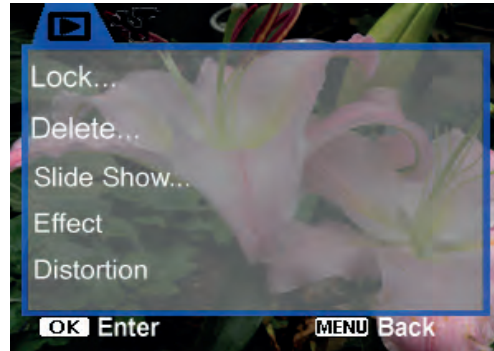
3.4.1 Video Playback

When you have found the file you wish to playback:

1. Press the 'OK' button. All recorded files will have a  icon on the bottom left of the screen.
2. To playback the video, simply press the 'OK' button.
3. To pause the video, press the 'OK' button again when the video is playing back.
4. To enter into the menu on the playback, in pause status, press the 'Meny' key. This will open up a pop-up menu to lock or delete the current file.


3.4.2 Photo Browsing

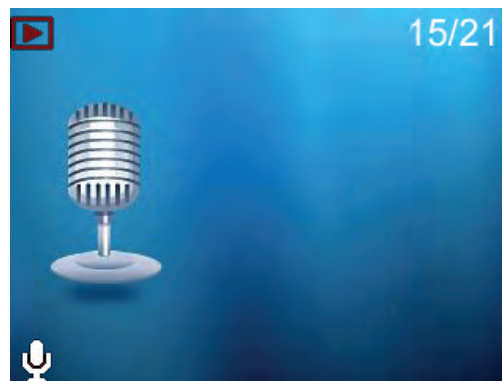
All photos will appear on the screen with no icon in the bottom left of the screen.



When you have found the image you wish to view, press the 'Menu' to bring up the pop-up menu to lock or delete the files. The menu also allows you to add effects to the image such as distortion etc.

3.4.3 Audio Playback

The audio recorded files will have both a playback icon on the top left of the screen and an  icon in the bottom left corner.



1. When you have found the desired audio file, press the 'OK' button to play.
2. To pause the video, press the 'OK' button again when the audio is playing back.
3. Press the 'Menu' button in pause status to bring up the menu to lock or delete the current file.
4. To stop the recording, press the 'Menu' key.

4 Connect to a Computer

There are 2 methods to connect the Smart-i *Drive* to a computer, Mobile HDD mode and PC Camera Mode.

4.1 Mobile HDD Mode

This option will allow you to view recorded files and save them onto your computer from the memory card after it has been connected to the computer.

To connect this way;

1. Before connecting the USB, enter into the USB menu settings.
2. Select 'Mobile HDD'.
3. Connect the USB to the Smart-i *Drive* and then insert the USB into the computer.
4. You can now view, backup and remove all of your saved files.

4.2 PC Camera Mode

The PC Camera Mode option allows the camera to be used as a web cam as part of the computer. To switch between Mobile HDD and PC camera mode, press the 'Mode' key.

To connect this way;

1. Before connecting the USB, enter into the USB menu settings.
2. Select 'Camera'.
3. Connect the USB to the Smart-i *Drive* and then insert the USB into the computer.

Please Note: If you wish to use the camera as a webcam, you will need to install the corresponding software.

5 Specifications

Smart-i <i>Drive</i> Specifications	
Dimensions (WxHxD)	109x41x33mm
Weight	97g
Display	1.5" Colour Screen
USB Interface	2.0
Micro SD Memory Card	Up to 32GB
Recording Resolution	720P / VGA
Viewing Angle	72°
G-Sensor Recording	Yes
IR Light	Yes
Photo	Format: JPG. Resolution: 1.3MP
Battery	Needs full time power supply
Operating Temperature	0~40°C
Recording Time (max)	720P: 3.7 GB Per Hour VGA: 2.7 GB Per Hour

Manufactured for:



Smart-i, Unit 2 Valley Point, Beddington Farm Road, Croydon Surrey CR0 4WP